

CLAIMS

1. A method comprising:

a) providing:

i) a sample from a perioperative subject; and

ii) an assay for detecting two or more genetic markers; and

b) subjecting said sample to said assay to generate a genomic profile for use in selecting an operative course of action.

2. The method of Claim 1, wherein said course of action comprises administration of anesthesia during a surgical procedure.

3. The method of Claim 2, wherein said anesthesia is a general anesthesia.

4. The method of Claim 2, wherein said anesthesia is a regional anesthesia.

5. The method of Claim 2, wherein said surgical procedure is non-invasive surgery.

6. The method of Claim 2, wherein said surgical procedure is invasive surgery.

7. The method of Claim 1, wherein said course of action comprises administration of anesthesia during a medical procedure.

8. The method of Claim 1, wherein said genomic profile comprises information pertaining to a pharmacodynamic risk.

9. The method of Claim 1, wherein said genomic profile comprises information pertaining to a pharmacokinetic risk.

10. The method of Claim 1, wherein said genomic profile comprises a presymptomatic diagnosis.

11. The method of Claim 1, wherein said genomic profile comprises information pertaining to differential diagnosis of co-existing diseases.

12. The method of Claim 1, wherein said two or more genetic markers comprises a mutation in two or more genes, said genes selected from the group consisting of BChE, CYP2D6, MTHFR, MS, CBS, F 5 Leiden, Prothrombin, RYR1, CACNA1S, and CPT 2.

13. A method comprising:

a) providing:

i) a sample from a subject; and

ii) an assay for detecting two or more genetic markers; and

b) subjecting said sample to said assay to generate a genomic profile for use in selecting an medical treatment course of action.

14. The method of Claim 13, wherein said sample is taken from said subject in a time frame selected from: prior to undergoing a medical procedure, during a medical procedure, and following a medical procedure.

15. The method of Claim 14, wherein said medical treatment is non-surgical.

16. The method of Claim 14, wherein said medical treatment is surgical.

17. A method, comprising:

a) providing

i) a sample from a subject; and

ii) an assay for detecting two or more genetic markers associated with a pharmacological response;

- b) testing said sample in said assay to generate a genomic profile; and
- c) subjecting said subject to a surgical procedure, wherein the conditions for said procedure are based on said genomic profile.

5 18 The method of claim 17, wherein said pharmacological response is to an anesthetic.

19. The method of claim 18, wherein said conditions for said procedure is the choice of anesthetic.

10 20. The method of Claim 17, wherein said two or more genetic markers comprises a mutation in two or more genes, said genes selected from the group consisting of BChE, CYP2D6, MTHFR, MS, CBS, F 5 Leiden, Prothrombin, RYR1, CACNA1S, and CPT 2.

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